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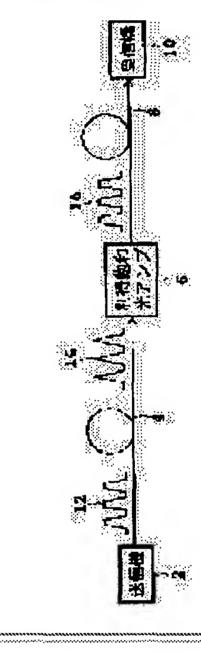
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(54) METHOD FOR OPTICAL FIBER TRANSMISSION, OPTICAL DEVICE AND SYSTEM

(57) Abstract:

PROBLEM TO BE SOLVED: To extend a transmission available distance in a method for optical fiber transmission, an optical device and a system. SOLUTION: In the method for optical fiber transmission to extend a transmission distance, first a 1st optical fiber 4 with dispersion is provided. Then an optical signal is supplied to the 1st optical fiber so that the optical signal is compressed on a time base as the optical signal is being propagated through the 1st optical fiber 4. For example, in the case that the dispersion is normal, prechirping is applied to the optical signal to provide downchirp. Then the compressed optical signal outputted from the 1st optical fiber 4 is fed to the optical device 6 with a saturation gain. According to this method, the effective combination between the compressed optical signal and waveform shaping by the optical device can extend the transmission distance.



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